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(71) Applicant : FUKUDA TSUGUO  
OPTRON INC

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(72) Inventor : FUKUDA TSUGUO  
SHIMAMURA SEISHI  
MATSUMURA ISAO

**(54) OPTICAL MEMBER FOR VACUUM ULTRAVIOLET REGION AND COATING  
MATERIAL FOR OPTICAL MEMBER**

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide an optical member for vacuum UV region which has low deliquescence and cleavage properties and has high durability even when irradiated with high-energy light, to provide an optical member for vacuum UV region which has high crystal homogeneity free of double refraction and distortion, can be manufactured at a low temperature, is excellent in productivity and contributes to the reduction of the manufacturing cost and to provide a coating material for the optical member which allows the embodiment of the high durability and the wavelength characteristics specific to thin films.

**SOLUTION:** The optical member for vacuum UV region consisting of the crystal expressed by the formula: KMF<sub>3</sub> (where M is respectively independently selected from Ca, Mg, or Sr) and the coating material for the optical member consisting of this fluoride crystal.

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